

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) A disposable apparatus for performing mechanical thrombectomy of dialysis grafts, comprising:

(a) an axially-elongated catheter having first and second ends and at least three axially-elongated non-communicating passages therein;

(~~b~~b) a guidewire assembled in a first one of the axially-elongated passages being of rounded cross section for free axial travel therealong of a guidewire inserted therein, the guide wire having a distal tip and being rotatable for performing a mechanical thrombectomy procedure;

(~~c~~c) a first balloon positioned along the exterior of the catheter proximate the first catheter end ~~and proximal of the distal tip of the guide wire~~, with the interior of the first balloon being in fluid communication with a second one of the axially-elongated passages, the first balloon whenin an inflated condition having a generally spherical shape and being positioned about the catheter so that the catheter defines an axis of the spherical balloon shape;

(~~d~~d) a second balloon positioned along the exterior of the catheter ~~inboard proximal~~ of the first balloon relative to the first catheter end ~~and proximal of the distal tip of the guide wire~~, the interior of the second balloon being in fluid communication with a third one of the axially-elongated passages, the second balloon whenin an inflated condition having an axially-elongated, generally cylindrical central portion and generally conical end portions ~~shape~~, the cylindrical and conical portions of the second balloon in the inflated condition being

symmetrically positioned about the catheter so that the catheter defines an axis of the cylindrical shape; and

(de) the catheter including a pair of inflation ports in the catheter respectively communicating with the second and third passages proximate the second catheter end and adapted for connectable communication with a source of pressurized gas for selectively inflating the first and second balloons by supply of the pressurized gas thereto via the second and third passages in the catheter;

(ef) wherein the guide wire is rotatable to break up thrombus in performing the thrombectomy procedure in an area distal of the first and second balloons.

2. (previously presented) The apparatus of Claim 1, wherein the first balloon is latex.

3. (previously presented) The apparatus of Claim 1, wherein the second balloon is made of PET.

4. (currently amended) The apparatus of Claim 1, wherein the catheter exterior is round cylindrical.

5. (cancelled)

6. (previously presented) The apparatus of Claim 1, further comprising radiographically detectable means on the catheter located at a predetermined position for detection by x-ray or other radiographic imaging apparatus to permit guidance of the catheter during the performance of a medical procedure.

7. (previously presented) The apparatus of Claim 6, wherein the radiographically detectable means includes at least one band.

8. (previously presented) The apparatus of Claim 7, wherein the at least one band is within at least one of the balloons when the at least one balloon is inflated.

9. (cancelled)

10. (currently amended) A catheter for use in performing a thrombectomy procedure, comprising:

an elongated catheterbody having a lumen extending therethrough;

a rotatable wire extending through the lumen of the catheterbody and having a distal tip protruding from a distal end of the body;

a first balloon disposed on the exterior of the catheterbody for expanding a stenosis at a venous junction of a dialysis graft, the first balloon being positioned proximal of the distal tip of the rotatable wire; and

at least one other balloon disposed on the exterior of the catheter body proximal of the distal tip of the rotatable wire for clearing a blockage at an arterial junction of a dialysis graft;

wherein the wire is rotatable to break up thrombus in performing the thrombectomy procedure in an area distal of the first and second balloons.

11. (currently amended) A catheter for use in performing a thrombectomy procedure, comprising:

a catheteran elongated body having first, second and third lumens extending therein;

a rotatable thrombectomy wire extending through the first lumen and having a distal tip protruding from a distal end of the body;

a first balloon disposed on the ~~catheter~~body proximal of the distal tip of the thrombectomy wire, the first balloon being inflatable through the second lumen of the body; and

a second balloon disposed on the ~~catheter~~body proximal of the distal tip of the thrombectomy wire, the second balloon being inflatable through the third lumen of the body;

wherein the first and second balloons have different compliances, and the thrombectomy wire is rotatable to break up thrombus in performing the thrombectomy procedure in an area distal of the first and second balloons.

12. (currently amended) A catheter for performing a thrombectomy procedure, comprising:

an elongated body having first, second and third lumens extending through the catheter~~therein~~;

a rotatable thrombectomy wire extending through the first lumen and having a distal tip protruding from a distal end of the body;

a first balloon disposed on the ~~catheter~~body proximal of the distal tip of the thrombectomy wire, the first balloon being inflatable through the second lumen of the body; and

a second balloon disposed on the ~~catheter~~body proximal of the distal tip of the thrombectomy wire, the second balloon being inflatable through the third lumen of the body;

wherein the first and second balloons have different pressure ratings, and the thrombectomy wire is rotatable to break up thrombus in performing the thrombectomy procedure in an area distal of the first and second balloons.

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (currently amended) The catheter of claim 10, wherein the rotatable thrombectomy wire further functions as a guidewire for the catheter body.

18. (cancelled)

19. (cancelled)

20. (currently amended) The catheter of claim 11, wherein the rotatable thrombectomy wire functions as a guidewire for the catheter body.

21. (cancelled)

22. (cancelled)

23. (cancelled)

24. (currently amended) The catheter of claim 11, wherein the first balloon is an angioplasty balloon having a compliancy, and the second balloon has a compliancy less than the compliancy of the first balloon, the first balloon being positioned proximal of the second balloon relative to the distal end of the body.

25. (previously presented) The catheter of claim 24, wherein the second balloon is configured to pull a platelet plug.

IN THE DRAWINGS

Applicant seeks to amend Fig. 1 to properly identify ends 32 and 34 of device 10 and to show a J-shaped tip 24 on the thrombectomy wire 22; to amend Fig. 2 to correctly identify internal conduit 14 and to identify distal end 32 of catheter 12; and to amend Fig. 4 to show a J-shaped tip 24' on thrombectomy wire 22'.

Attachments:

Fig. 1 marked in red to show proposed change;

Fig. 2 marked in red to show proposed change;

Fig. 4 marked in red to show proposed change;

New formal drawing of Fig. 1;

New formal drawing of Fig. 2;

New formal drawing of Fig. 4..